Supplementary ta	ble 7. Summary of studies or	the optimis	ation of self-	management																
1st Author, Stud publication desig year		Disease activity at baseline (mean (SD))	duration of RA (mean)	Self-management at baseline (mean (SD)) Self-effikacy	Anxiety	Depression	Other	Intervention group Description n	Comparator Description	n	Outcome Description*1	Time Risk ratio point* (95% CI) 2			difference	o-value	Effect size (cohen's d, if reported or calculable)	Other	Risk of blas^3	Risk of bias of individual studies included in SLR^4
Self-efficacy Self-management or	ograms (combination of non-ph	rmacological i	interventions																	
Albano, 2010 SLR: SLRs, 10RC 20 ni	Ts,	NR	NR	NR				Educational programs (alming at increasing #: knowledge and improving performance) and psycho- educational programs (combining teaching intervention activities to improve coping and change behaviour)	2 NR	NR	Self-efficacy	NR						Improvement in 11 studies; no improvement in 1 study; Conclusion: A large number of studies still assess the positive effects of therapeutic patient education. Nawadays, the problems of short-term efficacy of therapeutic patient education and the cultural and social barriers to this practice have become a major issuefor research	Moderate	High
Anvar, 2018 RCT	Older women with RA (76	NR	NR	Self-efficacy pain (ASES): 40.16; Self-efficacy function (ASES): 63.01				Self-management program: Participants in these 35 classes followed a six week, multidisciplinary, group rehabilitation program as well as a peer education program, consisting of exercise and educational	Control: NR	37	Self-efficacy pain(according to ASES, score 10-100, higher score reflects higher self-efficacy)		66.31 (3.08)		,	<0.001			High	
								components (sk weekly sessions of 1-1.5h).			Self-efficacy function (according to ASES, score 10-100, higher score reflects higher self- efficacy)	6W	85.29 (3.26)	60.97 (3.21)		<0.001	7.52			
Bell, 1998 RCT	Patients with active RA (150)	NR	7.5Y	Self-efficacy (according to Stanford Arthritis Self-Efficacy Scale (SES), score 0-100, higher score reflects higher self-efficacy): 49.2				Education and exercise program consisting of >3 visits 76 of 3 hours of physical therapy	Wait list	74	Self-efficacy (ITT analysis, according to Stanford Arthritis Self-Efficacy Scale (SES), score 0 100, higher score reflects higher self-efficacy)	6W	63.2 (18.4)	57.7 (20.7)			0.28		High	
											Self-efficacy (ITT analysis, according to Stanford Arthritis Self-Efficacy Scale (SES), score 0 100, higher score reflects higher self-efficacy)	e from BL	13.3 (16.4)	8.2 (20.0)		p=0.106 p=0.015 n protocol completers				
Lineker, RCT 2001; Long- term follow- up of: Bell et	Patients with active RA (150)	NR	7.5Y	Self-efficacy (according to Stanford Arthritis Self-Efficacy Scale (SES), score 0-100, higher score reflects higher self-efficacy): 49.2			RA knowledge (according to Rheumatoid Arthritis Knowledge Questionnaire (KQ), score 0-31, higher score reflects higher knowledge): 15.8	Education and exercise program consisting of >3 visits 76 of 3 hours of physical therapy	Wait list	74	Self-efficacy (according to Stanford Arthritis Self-Efficacy Scale (SES), score 0-100, higher score reflects higher self- efficacy)	52W	NR	NR	(MANOVA comparing BL, 12W and 52)			High	
Breedland, RCT 2011	RA patients (34)	DAS28 3.0	8.0Y	Self-efficacy pain+other symptoms (according to ASES (Arthritis Self-Efficacy Scale), score 1- 5, higher score reflects higher): 3.22; Self- efficacy function (according to ASES (Arthritis	3		Self-reported health status psychological state (according to Arthritis Impact Measurement Scales-2 (AIMS2), score 0-10,	Group therapy: physical exercise designed to increase 19 aerobic capacity and muscle strength together with an education programe to improve health status and self-efficacy	Wating list	15	Self-efficacy function (according to ASES (Arthritis Self-Efficacy Scale), score 1-5, higher score reflects higher):		4.32 (0.74)	4.31 (0.87)			0.012		High	
				Self-Efficacy Scale), score 1-5, higher score reflects higher): 4.11			higher score reflects lower health state): 2.35; Self-reported health status social interaction (according to Arthritis Impact Measurement Scales-2 (AIMS2), score 0-10,				Self-efficacy function (according to ASES (Arthritis Self-Efficacy Scale), score 1-5, higher score reflects higher):	e from BL until	0.29 (0.57)	0.10 (0.38)	,	p=0.24	0.39			
							higher score reflects lower social interaction): 3.59				Self-efficacy pain+other symptoms (according to ASES (Arthritis Self-Efficacy Scale), score 1-5, higher score reflects higher)	9W	3.54 (0.88)	3.63 (0.85)			0.10			
											Self-efficacy pain+other symptoms (according to ASES (Arthritis Self-Efficacy Scale), score 1-5, higher score reflects higher)	Chang e from BL until 9W	0.42 (0.71)	0.28 (0.85)		=0.47	0.18			
DiRenzo, 2018 SLR: RCTs	5 RA patients (399)	NR	NR	NR				Mindfulness/vitality training program (#	 Walt-list/cognitive behavior therapy/education 	aral NR	Self-efficacy at 12M according to Arthritis Self-Efficacy Scale	12M						Significant treatment effect favouring vitality training program; Conclusion: Them are few trisle evaluating the effect of mindfulness-based interventions on outcomes in patients with RA. Preliminary findings suggest that mindfulness-based interventions may be a useful strategy to improve psychological distense in those with RA.		Moderate- High
Feldthusen, RCT 2016	RA patients with DAS28<3.8, VAS-fatigue >50 and disease duration >3Y (70)	NR	12.9Y	Arthritis Self-efficacy Scale (ASES, score 0-100 higher scores reflect higher self-efficacy): 59.8				balancing life activities to guide participants in managing their fatigue: starting with individual person-centered meeting during which a self-care	Usual care	34	Arthritis Self-efficacy Scale (post intervention, ASES, score 0-100, higher scores reflect higher self- efficacy)		68.7 (15.8)	,			0.53	USUESS III UIUSE WIII INA.	High	
								plan was developed, then follow-up meetings/phone contacts according to each participant's preferences with a physical therapist, who supported and coached each participant			Arthritis Self-efficacy Scale (post intervention, ASES, score 0-100, higher scores reflect higher self- efficacy)		,	1.5 (12.3)		=0.099	0.43			
Hammond, RCT 2004	RA patients (328)		9.5M	Self-efficary score (according to Arthritis Self- Efficary Scial (Selfs), some 0-100, higher from the self-efficary); 61.23			Impact Measurement Scale version	individual treatments and one 2h group arthritis education program, with additional sessions if needed	2 Usual care	164	Self-efficary score (according to Arthritis Self-Eficary Scale (ASES), score 0-100, higher scores reflect higher self- efficacy)	Chang e from BL until 6M	4.62 (95%C) 2.21-7.04)	3.41 (95%C) 1.12-5.71)	,	o=0.47			High	
RCTs	,	NR	NR	NR				Self-management interventions: educational, Babehavioural and cognitive approaches to influence health knowledge, attitudes, beliefs and behaviours to promote independence, maintain or adjust life roles, and address the psychological impact of diseases	partner/Usual care/Informa book lets/Lifestyle manager for arthritis programme/Sel guide only	tion nent Shelp	Self-efficacy	NR						Short-term benefits were found in four studies. Three had longer term follow-up at 12 months, but only two showed benefits.		Low- moderate
Knittle, 2015 RCT	RA patients (78)	NR	NR	Self-efficacy physical activity (according to 18- item questionnaire from Bandura et al (2006), score 0-180, higher scores reflect higher self- efficacy): 81.2		BSI (Brief Symptom Inventory),	to three items from the Treatment Self-Regulation Questionnaire,	Education session plus a motivational interview from 38 a physical therapist and two self-regulation coaching sessions from a the umatology nurse	Group-based education ses: by a physical therapist	ion led 40	Self-efficacy physical activity (according to 18-item questionnaire from Bandura et a (2006), score 0-180, higher scores reflect higher self-		92.8 (37.7)	78.8 (40.4)				Effect size (Cohen't stj. 0.48); pu 0.08 (main effects of group × time interaction based on repeated measures mixed Andva adjusted for age, gender, and baseline level of disease activity)	High	

Lorig, 2008 RCT Manning. RCT	, ,	NR	NR	NR		Internet-based Arthritis Self-Management Program (floused on reducation of pain and improvement of function, participants were asked to log on at least 3 times for a total of 1-2h and to participate in the weekly a ctivities]			72	according to ASES, score 10-100, higher score reflects higher self- efficacy)	e from BL until 1Y	0.783 (1.32)			p=0.282 0.37		High	
Manning, HLI 2014	RA patients (108)	DAS28 5.1	. ZUM	Self efficiely pain (according to ASSS, score 10- 100, higher score reflects higher self-efficacy): 58.4; Self-efficacy function (according to ASSS, score 1010, flay her score reflects higher self-efficacy): 61.2; Self-efficiel yerrippion (according to ASSS, score 1010, flay yerrippion (according to ASSS, score 1010, flay higher score self-ests higher self-efficacy): 61.7		Education, Self-Management, and Upper Edenminy Descript Training in Proposition of Architect (LTXIA) program of supervised groups delived tractes weekly, stating with an interactive discussion/perminal, followed by an exercise warm-up, promosibiled exercise focult and exercise codi deliver, thereof the proposition of the proposition of the promosibiled exercise cold and control of the proposition of the promosibiled exercise cold and the exercise at home for another 10My.	52	Usual care	36	Self-efficacy function (according to ASES, score 10-100, higher score reflects higher self- efficacy) Self-efficacy symptoms	e from BL until 12W Chang e from BL until 12W Chang e from	2.6 (95%CI -3.9- 9.1) 4.6 (95%CI -3.1-	13.2·1.8) -4.7 (95%CI - 10.8·1.5)	1.6-19.5) 7.2 (95%CI 0.0-14.5) 9.3 (95%CI	p=0.051		High	
Srikesavan, SLR: 2019 RCT:	6 RA patients (567)	NR	NR	NR		Web-based rehabilitation	π2	Walting list/usual care	NR	self-efficacy) Self-efficacy according to	eu until 12W 6W- 10W					Significant treatment effect favouring intervention on short- tem, medium-terum and long-term, Conclusion: The effects of web based with bullstation intervention to pain, function, quality of life, sof-efficacy, returnated arthritis toxoledge, are alloy physical scholly as uncertain because of the every leave quality physical scholly as uncertain because of the every leave quality physical scholly as uncertain because of the every leave quality physical scholly as uncertainty to the every leave and the physical scholly as of the every leave to the every leave not reported. Large, well-designed that has needed to evaluate the clinical and code-effectiveness of wheshead enhabilitation.	f	High
						Web-based rehabilitation	n=93 #1, n=88	Waiting list	NR NR	according to Arthritis Self- efficacy Scale Self-efficacy at medium-term according to Arthritis Self- efficacy Scale	10W 15.4 (6.73- 24.07) 10W 15.5 (7.13- 23.87)							
SN, 2004 ORC	* BA patients (45)	NR	85.73M	Self-management behavior - Exercise (subscale of self-management behavior questionus)s, range 0.9M, higher score reflects. NIR. 5.31. Self-management behavior - Cognitive symptom management (bubcula reflects. NIR. 5.31. Self-management behavior - Cognitive symptom management (bubcula reflects) and reflects NIR. 1.33. Self- management behavior - Mental stress behavior - Due of community services - Self-management behavior - Due of community services - Self-management behavior - Oue of community services - Self-management behavior - Oue of community services - Oue of community - Oue of commun		were osser remainistion. Community whabilisation service: 1) orientation place. Community whabilisation program and hospital visity/home visits to provide reformation about decase, allowing the place of the place of the provide reformation and classes, allowing and provide reformation and promote readness for changing; 1) interevention and promote readness for changing; 1) interevention and promote readness for changing; 1) interevention and under memoric class to acquire reformangement strategies, enhance self-efficacy and strengthen and expansional relatively; 3) consolidation phase (6M, re-usion meetings and vocational relatively) and consideration phase (6M, re-usion meetings and vocational relatively). Some place of the promote of the relative phase of the place of th	#1, n=144 29	Usual care (patients who decided not to join the intervention group)		according to Arthritis Self- efficacy Scale	9M	6.47 (1.47)	5.98 (1.56) 6.06 (2.23) 6.25 (6.79)		p=0.000, 0.67 adjusted by baseline value p=0.001, 0.23 adjusted p=0.000, 0.03 adjusted p=0.000, 0.03 adjusted p=0.000, 0.03 adjusted value value		High	
Albano, 2010 SLR: SLR: 10Ri 20 n	Ts,	NR	NR	NR		Educational programs (aiming at increasing knowledge and improving performance) and psychoeducational programs (combining teaching intervention activities to improve coping and change behaviour)	#12	NR	NR	Self-efficacy	NR					Improvement in 11 studies; no improvement in 1 study; Conclusion: A large number of studies till assess the positive effects of therapeutic patient education. Nowadays, the problems of short-term efficacy of therapeutic patient education and the cultural and social barriers to this practice have become a major issuefor research	Moderate	High
Barlow, 1998 RCT	RA patients (108)	NR	15.85Y	Seef efficacy pain (ASS-gains come OSIs higher Anniety (MADS, score O-21, higher Come officer higher and efficacy): 20.17; Self-score reflects higher anniety): 8.33; higher score reflects higher anniety): 8.33; higher score reflects higher acceptance reflect higher acceptance reflect higher acceptance reflect higher score reflect higher acceptance reflec	Total knowledge score (self- developed, score -40 to -40, higher score reflects higher knowledge): 15.98	Provision of general information on RA in leaflet format	53	No intervention	55	score 0-50, higher scores reflect higher self-efficacy) Self-efficacy other (ASE-other, score 0-60, higher scores reflect higher self-efficacy)	e from BL until 3W Chang e from BL until	2.79 (9.47) 0.65 (10.29)	1.13 (9.78) 0.09 (10.43)		p=0.199 0.17 p=0.407 0.054		High	
Hosseini RCT Moghadam, 2018	Female RA patients (64	i) NR	NR	Self-efficacy (a coording to omitted ASES (primitin said efficacy coals), score 0-33. Npher scores reflect higher self-efficacy): 15.53		Group education program: two 30min sessions per week	32	Usual care	32		3W 8W	21.18 (5.10)	14.34 (5.98)		p<0.001 1.23		High	

Mollard, 2018 RCT R	RA patients (36)	NR P	R	Self-efficacy (according to P.S.IMS, Phatent- Reported Outcomes Measurement Information System Self-Efficacy Munaging Symptoms, score NR, higher score reflects NRI: 47.2, Self-efficacy (according to PARA) (according to PARA) Activation Measure), score NR, higher score reflects higher self-efficacy): 70.6				Usage of the LiveWithArthrist mobile app (supports self management behavious with features to monitor and manage be variables associated with RA, e.g. p.a.it treatment, other lifestyle and environmental data, Apon provide reports that might help to identify aspect of justice lifestyle than when the arthritish enter or worse and else patients compare effectiveness of different treatment statistics;	21	Usual care	15	SEMS (Patient-Reported Outcomes Measurement Information System Self- Efficacy Managing Symptoms), score NR, higher scor reflects NR) Self-efficacy (according to PAM (Patient Activation Measure), score NR, higher score reflects higher self-efficacy)	e from BL until 6M Chang e from	2.80	·1.66	p=0.04 p=0.46		High	
2011 d	RA patients with difficulties and/or pain in nands that justified occupational therapy (53)	DAS28 3.71 5	.25Y	Joint Protection Self-Efficacy (according to JP- SES, score 0-30, higher score reflects higher self-efficacy): 16.41; Arthritis self-efficacy (according to ASE-01, score 0-10, higher score reflects higher self-efficacy): 6.82	(Hospital Anxiety and Depressions Scale - Anxiety subscale), score 0-	(Hospital Anxiety and Depressions Scale - Depression subscale), score		Joint protection education according to Pictorial Representation of Iliness and Self Measure (PRISM): a brief interactive hands-on tool, requiring simple instructions and little time; five 45min sexions, four over a 3W period and one booster session 2M later	26	Conventional joint protection	27	post-intervention (according to JP-SES, score 0-30, higher score		7.49 (1.34) 21.64 (3.91)	6.20 (6.13) 19.32 (4.01)	p=0.015 0.2		High	
2012 (Long- d term follow- h	RA patients with difficulties and/or pain in nands that justified occupational therapy (53)	DAS28 3.71 S	.25Y	Joint Protection Self-Efficacy (according to JP- SES, score 0-30, higher score reflects higher self-efficacy): 16.41; Arthritis self-efficacy (according to ASES-0, score 0-10, higher score reflects higher self-efficacy): 6.82	(Hospital Anxiety and Depressions Scale - Anxiety subscale), score 0-	Scale - Depression subscale), score		Joint protection education according to Pictorial Representation of illness and Self Measure (PRISM): a brief interactive hands- on tool, requiring simple instructions and little time; five 45min sessions, four over a 3W period and one booster session 2M later	26	Conventional joint protection	27		e from	-0.1 (2.0)	-0.5 (1.6)	p=0.38 0.2		High	
													e from BL until 12M	3.3 (6.9)	1.9 (5.2)	p=0.38 0.2			
Riemsma, RCT R 1997	RA patients (216)	NR 1	3.35Y	(Arthritis Self-efficacy Scale), score 10-100, higher score reflects higher self-efficacy): 3.12; Self-efficacy - function (according to ASES (Arthritis Self-efficacy Scale), score 10-	Dutch Arthritis Impact	of Dutch Arthritis Impact	questionnaire, score 0-10, higher score reflects higher knowledge):	Individual program for education under guidance of their regular providers of health care whose activities were coordinated through arthritis passports	69	Usual care	72	Self-efficacy - pain (according to ASES (Arthritis Self-efficacy Scale), score 10-100, higher score reflects higher self- efficacy)		3.22	2.94	ns		High	
				100, higher score reflects higher self-efficacy): 3.32; Self-efficacy - other symptoms (according to ASES (Arthritis Self-efficacy Scale), score 10-100, higher score reflects higher self-efficacy): 3.63 (3.54 vs 3.88 vs 3.45.pc).03								Self-efficacy - function (according to ASES (Arthritis Self- efficacy Scale), score 10-100, higher score reflects higher self- efficacy) Self-efficacy - other symptoms		3.52	3.51	ns			
												(according to ASES (Arthritis Self- efficacy Scale), score 10-100, higher score reflects higher self- efficacy)				ns			
								Educational information without further guidance	75	Usual care	72	Self-efficacy - pain (according to ASES (Arthritis Self-efficacy Scale), score 10-100, higher score reflects higher self- efficacy)		3.45	2.94	ns			
												(according to ASES (Arthritis Self- efficacy Scale), score 10-100, higher score reflects higher self- efficacy)		3.68	3.31	ns			
												Self-efficacy - other symptoms (according to ASES (Arthritis Self- efficacy Scale), score 10-100, higher score reflects higher self- efficacy)	7M	3.96	3.51	ns			
f: w S	RA patients scoring ≥6 for atigue during the past week (Visual Analogue scale, 0-10, higher score reflects higher level of atigue) (127)	NR 1	4.0Y	Self-efficacy (according to RASE (Rheumatoid Arthritis Self-Efficacy scale), score 28-140, higher scores reflect more self-efficacy): 104.8	and Depression Scale), score 0-21,	and Depression Scale), score 0-21, higher score reflects higher	Helplessness (according to AHI (Arthritis helplessness Index), score 5-30), higher scores reflects higher helplessness): 17-9 (4.8)	Cognitive behavioural therapy for fatigue self- management: 6 weekly sessions of 2h, 1 consolidation session at W14		Fatigue Information: 1h didactic group session	62	Self-efficacy (according to RASE (Rheumatoid Arthritis Self- Efficacy scale), score 28-140, higher scores reflect more self- efficacy)	18W	112.12 (21.33)	104.16 (12.66)	p=0.042 0.4	6 Adjusted difference: 6.74 (95%CI 0.24-13.25), adjusted for baseline score	High	
		NR !	R	NX				Psychological Interventions	SLRs, 8 studies		NR	Self-efficacy	NR.				Astin et al. (2002) jenponed that psychological interventionshuld a moderate effect to self efficacy part istervention velicitie and control effect to self efficacy part istervention velicitie moderate. Niederatem et al. reported that only 1 of the disproychochicational intervention studies included self-efficacy as anoxionem ensauers. The study, which examined the effectiveness of actiess management program, flourid sportage and anoxionem ensauers. The study, which examined the efficience of actiess management program flourid sportage and psychological acties which examines the parties global assessment, functional disability, pash, fatigue, amende and depression were observed. The effort corogic, self-efficacy and psychological activity were materied (8-1-64) moderate programments of the psychological activity were materied (8-1-64) moderate improvements in biopsychocola loutionessfor patients with microarchical entities of such activity of the self-efficience of the programment of the psychological performance for control psychological performance for conference or non-psychological psychological performance for conference or non-psychological	at.	Low- moderate
								Psychological interventions	SLR, 5	Wait-list/usual care/attention placebo/education Wait-list/usual care/attention		Self-efficacy post-intervention					Pooled effect size: 0.35 (95%CI 0.11-0.59, p=0.017)		
								Psychological interventions		Wait-list/usual care/attention placebo/education	NR	Self-efficacy after follow-up	NR				Pooled effect size: 0.20 (95%CI -0.080.048, p=ns)		

Baxter, 2016 RCT	RA patients (3	S) NR	7.	.01Y	Self-efficacy for symptoms (Antholis Self- Efficacy scale, combination of pain and other symptoms, score 20-50, higher score reflects higher self-efficacy): 12.87, 5elf-efficacy for physical active (Self-actionaries, score O- 25, higher score reflects higher self-efficacy): 14.3		Walking: instructions on a walking roude with three 11 loops, to be completed 3-4 times a week	Nutrition education session	22	Self-efficacy for symptoms (Arrhites Self-efficacy scale, combination of jain and other symptoms, score 20-200, ligher scale, score reflects ligher self-self-efficacy or symptoms, score 20-200, ligher self-self-efficacy or symptoms, scale 20-200, ligher self-self-efficacy or symptoms, scale 20-200, ligher until score effects ligher self-efficacy).	., .,	155.7 (122- 175), range -3.5 (25.0) 15.7 (16-24), range	P	-0.82 1.04		High	
De Thurah, SLR 2017 RCT	7 RA patients (5: RA patients))	18 (#5, only NR	R N	R	NR.		Nurse-led follow-up in managing disease control 184	Physician-led follow-up	183	Self-efficacy for physical activity Chang (SEPA questionnaire, score 0.25, e from higher score reflects higher self- until efficacy) 6W Self-efficacy, according to 1Y Arthritis Self-Efficacy Scale	6.2 (5.6)	3.5 (6.3)	0.30 (0.07- 0.53)	=0.57 0.44	So favour nurse led follow-up; Condusion: After Syear no difference in disease activity, Indicated by DASSE, were found between embedded nurse led follow-up compared with	Low	Moderate
															conventional physicals neld follow up, in Pa patients with low disease activity or remission. Not difference was found in patient satisfaction after 1 year (standard mean difference (SM D) –0.17 (95 NC –1.0 to 0.67), whereas a statistical significant difference in Favour of nurse-lef follow-up was seen after 2 years (SMD: 0.6 (95% C) –0.00 to 1.20)).		
							Nurse-led follow-up in managing disease control 87		88	Self-efficacy, according to 2Y Arthritis Self-Efficacy Scale			0.46 (0.16- 0.76)		>0 favours nurse led follow-up		
de Thurah, RCT 2018	RA patients wi duration >2Y (th disease DA 194)	ra	1-12Y, inge of iedians	NR		Patient-reported outcome based tele-health follow-up 88 carried out by a nurse	Conventional outpatient followup by physicians	94	Self-efficacy (ITT analysis, Chang according to General Self-efrom Efficacy scale, range of score not BL reported) until S2W	-0.05 (95%CI - 0.13-0.04)	-0.02 (95%CI - 0.13-0.11)	-0.03 (90%CI p -0.19-0.11)	=0.67		High	
							Patient-reported outcome based tele-health follow-up 93 carried out by a rheumatologist	Conventional outpatient followup by physicians	94	Self-efficacy (ITT analysis, Chang according to General Self- e from Efficacy scale, range of score not BL reported) until SZW	-0.14 (95%CI - 0.260.03)		-0.12 (90%CI p -0.30-0.03)	=0.15			
Hewlett, 2005 RCT	RA patients (2)	99) NR	ra	.0-10.0Y, inge of redians	self efficacy scale), score 10-100, higher scores (Hospital Anxiety and Depression (Hospital Anxiety and Depression belple reflect more self-efficacy): 50.0-58.0, range of Scale), score 0-21, higher score Scale), score 0-21, higher score 5-30, in the score of the s	plessness index subscale, score 0, high scores reflect more plessness): 16.0-16.5, range of	Direct access to hospital review (rheamstologist, 68 physiothespit), occupational throught) by patients with RA through a russe led telephone helpfare	Usual care (review initiated by rheumatologists)	52	Self-efficacy pain (according to ASS (arthritis self efficacy e from scale), score 10-100, higher scores-reflect more self-efficacy) until 6Y Self-efficacy function (according to ASSS (arthritis self-efficacy) until 6Y Self-efficacy core from self-efficacy) until 6Y Self-efficacy other (according to Charge Self-efficacy) until 6Y Self-efficacy other (according to Charge Self-efficacy) e from self-efficacy other (according to Charge Self-efficacy) e from self-efficacy other (according to Charge Self-efficacy) e from self-efficacy	2.0 (-12.0-16.0), median (IQR) -2.75 (-15.9-5.0) median (IQR) -3.30 (-11.6-8.3) median (IQR)	19.0), median (IQR) , -6.6 (-20.6- 2.40), median (IQR) , -6.7 (-15.0- 6.7), median	P	=0.49 =0.19 =0.25		High	
Roth, 2009 RCT	RA patients wi (153)	th insomnia NR	R N	R	Self-efficacy -overal (according to Arthritis Self-efficacy Scale (ASS), zone 0-30, higher soon enforch piper self-efficacy), 6-1, 5elf- Self-efficacy (Self-ASS), zone 0-30, higher score reflicac (self-ASS), zone 0-30, higher score reflicac higher self-efficacy (S. 2-5, self-efficacy -function (peccoding be Arthritis Self-e		Escopicione 3mg, once daily at bedtime 77	Placebo at bedtime	76	scale), score 10-100, higher scores reflect more self-efficacy) until 6Y Self-efficacy - overall (according 4W to Arthritis Self-efficacy) Scale (ASES), score 0-10, higher score reflects higher self-efficacy)	6.54 (1.93)		a b	iseline ilue		Moderate	
					**Indication piccoroling to America, See-emitacy Social (MSSS), accord 100, higher score reflects higher sciefficacy) 6: 5, 5 self-efficacy or other complexes, (second to Activities Self-efficacy Social (MSS), accord 3:01, forgiver score reflects higher sciefficacy 6: 0.					Self-efficacy - overall (according to Arthritis Self-Efficacy) Scale of from (ASES), score 0-10, higher score BL enflicts higher self-efficacy) until 4W	0.61(1.41)	0.17 (1.53)		0.30			
										Self-efficacy - pain (according to 4W Arthritis Self-Efficacy Scale (ASES), score 0-10, higher score reflects higher self-efficacy)	5.87 (1.98)	5.22 (1.96)	a b	=0.006, 0.33 djusted / aseline alue			
										Self-efficacy - pain (according to Chang Arthritis Self-Efficacy Scale of from (ASES), score 0-10, higher score BL reflects higher self-efficacy) until 4W	0.67 (2.09)	-0.09 (2.06)		0.3	,		
										Self-efficacy - function 4W (according to Arthritis Self- Efficacy Scale (ASES), score 0- 10, higher score reflects higher self-efficacy)	6.88 (2.49)	6.76 (2.65)	a b	=0.2, 0.04 djusted / aseline alue	37		
										Self-efficacy - function Chang (according to Arthritis Self-Efficacy Scale (ASES), score 0-10, higher score reflects higher self-efficacy) 4W	0.57 (1.73)	0.26 (1.63)		0.14	3		
										Self-efficacy - other complaints 4W (according to Arthritis Self- Efficacy Scale (ASES), score 0- 10, higher score reflects higher self-efficacy)	6.55 (2.11)	6.27 (2.19)	a b	=0.1, 0.1: djusted / aseline alue			
													·				

Tuntland, SLR 1 2010 nRCT	RA patients with persistent dy eyes due to Sjögmen's syndrome [29]	NR NR	MR				Assistive technology (Eyedrop dispenser device to instill artificial team)	29 (cross- over trial)	NR	29	Efficacy Scale (ASES), score 0-	Chang e from BL until 4W	0.5 (1.75)	0.21(1.91)		Sir th te un res	yeding device improved application of eye dings; Candusions not only on statisment the inclusion centers for this review, not vary time the value of the center of the effect of statistive checking for sadds with means told arthiffs. There is an open recent for the feet of the center of the effect of the center of the center of the feet of the center	Low	High
Anxiety Self-management prog Feldthusen, RCT	grams (combination of non-phare	macological intervention	Arthritis Self-efficacy Scale (ASES, score 0-100						Usual care	34		12W	4.5 (3.4)			0.71			
2016	RA patients with DAS28-3.8, VAS-fatigue >50 and disease duration >3Y (70)	NR 12.9Y	Arminis self-emicacy scale (As-E., score D-LUL higher scores reflect higher self-efficacy): 59.1	, Anwery (HALD., score U-21, ngner 3 score reflects higher anviety): 6.0	Depression (HAUS, score 0-21, higher score reflects higher depression): 6.4		Tailore dhealth-enhancing physical activity and balancing life activities to guide participants in managing their fatigue: starting with individual person-centered meeting during which a self-care plan was developed, then follow-ym meetings/phone contacts according to each participant's preferences with a physical therapist, who supported and coached each participant.		usuai care	34	HADS, score 0-21, higher score reflects higher anxiety) Anxiety (post-intervention, HADS, score 0-21, higher score	Chang		7.2 (4.2) 0.1 (2.5)	p=0.0099 0			High	
Education Barlow, 1998 RCT	RA patients (108)	NR 15.85Y	Self-efficacy pain (ASE-pain, score 0-50, higher scores reflect higher self-efficacy): 20.17; Self efficacy other (ASE-other, score 0-60, higher scores reflect higher self-efficacy): 30.47; T	r Anxiety (HADS, score 0-21, higher score reflects higher anxiety): 8.33;	Depression (HADS, score 0-21, higher score reflects higher depression): 6.63;	Total knowledge score (self- developed, score -40 to +40, higher score reflects higher knowledge): 15.98	Provision of general information on RA in leaflet format	53	No intervention	55	Anxiety (HADS, score 0-21, higher score reflects higher anxiety)	Chang e from BL until 3W	0.38 (2.38)	0.16 (2.81)	p=0.960 0	0.08		High	
Niedermann, RCT 2011	RA patients with difficulties and/or pain in hands that justified occupational therapy (53)	DAS283.71 9.25Y	Joint Protection Self-Efficacy (according to IP- SES, score 0-30, higher score reflects higher self-efficacy) 16.41, Arthitis self-efficacy (according to ASES-D, score 0-10, higher score reflects higher self-efficacy): 6.82	(Hospital Anxiety and Depressions Scale - Anxiety subscale), score 0-	Scale - Depression subscale), score		Joint protection education according to Pictorial Representation of Illness and Self Measure (PRISM): a brief interactive hands- on tool, requiring simple instructions and little time; five 45min sessions, four over a 3W period and one booster session 2M later	26	Conventional joint protection	27	Arthritis self-efficacy post- intervention (according to ASES- D, score 0-10, higher score reflects higher self-efficacy)	3М	7.49 (1.34)	6.20 (6.13)	p=0.015 0	0.29		High	
Niedermann, RCT 2012 (Long- term follow- up)	RA patients with difficulties and/or pain in hands that justified occupational therapy (53)	DAS28 3.71 9.25Y	Joint Protection Self-Efficacy (according to JP- SES, score 0-30, higher score reflects higher self-efficacy): 16.41; Arthitis self-efficacy (according to ASES-D, score 0-10, higher score reflects higher self-efficacy): 6.82	(Hospital Anxiety and Depressions Scale - Anxiety subscale), score 0-	Scale - Depression subscale), score		Joint protection education according to Pictorial Representation of Illness and Self Measure (PRISM): a brief interactive hands- on tool, requiring simple instructions and little time; five 45min sessions, four over a 3W period and one booster session 2M later		Conventional joint protection	27	subscale), score 0-21, higher		-0.1 (2.9)	0.0 (2.2)	p=0.89 0	0.039		High	
Riemsma, RCT 1997	RA patients (216)	NR 13.35Y	Self-efficacy - pain (according to ASS (Archivis Self-efficacy Scial), score 10-100, higher score reflects higher self-efficacy). 3.12, Self-efficacy - Anction (according to ASS (Archivis Self-efficacy) - ASS (Archivis Self-efficacy) - 3.12, Self-efficacy - other symptoms (according to ASS (Archivis Self-efficacy) - 3.12, Self-efficacy - other symptoms (according to ASS (Arthivis Self-efficacy Sciale), score 10-100, higher score effects higher self-efficacy) - 3.03, 2.54 vs. 3.88 vs. 3.45, pc.0.05)		Depression (according to subscale of Dotch Arthrist Impact Arthrist Impact Measurement Scales (AIMS)): 2.99 (2.99 vs 2.45 vs 3.54, p-t).05)	questionnaire, score 0-10, higher score reflects higher knowledge):	Individual program for education under guidance of their regular provision of health care when on beath that we have a catchifes were coordinated through arthritis passports were coordinated through arthritis passports Educational Information without further guidance			72	Anxiety (according to subscale of Dutch Arthritis Impact Measurement's Totale (AIMS)) Anxiety (according to subscale of Dutch Arthritis Impact Measurement Scales (AIMS))		3.78	3.27	ns			High	
Psychological interventi Hewlett, 2011 RCT	tions RA patients scoring 26 for I fatigue during the past week (Visual Analogue Scale, 0-10, higher score reflects higher level of fatigue) (127)	NR 14.0Y	Self-efficacy (according to RASE (Rheumatoid Arthritis Self-Efficacy scale), score 28-140, higher scores reflect more self-efficacy): 104.1	and Depression Scale), score 0-21,	Depression (HADS (Hospital Anxiety and Depression Scale), score 0-21, higher score reflects higher depression): 7.1 (3.7)	Helplessness (according to AHI (Arthritis helplessness Index), score 5-30), higher scores reflects higher helplessness): 17.9 (4.8)	Cognitive behavioural therapy for fatigue self- management: 6 weekly sessions of 2h, 1 consolidation session at W14	65	Fatigue information: 1h didactic group session	62	Anxiety (HADS (Hospital Anxiety and Depression Scale), score 0- 21, higher score reflects higher anxiety)	18W	5.32 (4.61)	7.59 (4.74)	p=0.22 0	0.49 Ac ba	djusted difference: -0.78 (95%CI -2.03-0.47), adjusted for seeline score	High	
Prothero, SLR: 9 2018 SLR:		NR NR	NR				Psychological interventions	#3 SLRs, 14 studies	Walk-list/usual care/attention placebo/education	NR	Anxiety	NR				sm (2) be bo th thi inc an int	nittle et al. [2000]found psychological interventions resulted in nabligedificat reductions in anively Nedermann et al. John Scholaged (Nedermann) anively Nedermann et al. John Scholaged (Nedermann) anively Nedermann et al. 19th 15 weeks and Genoralth. In comparison, the social group to 15 weeks and Genoralth. In comparison, the social group seep year howeverlighten positive change at 15 weeks, but lies leffect was normanisoned at 6 months. The 4 studies sucked in the new level Johnson et al. (1012) which is tested for the second properties of the second properties of the reduction of the second properties of the reduction of the second properties of the reduction of the second properties of the second properties the second prope	Low	Low- moderate
																ob	oserved. The effect on coping, self-efficacy and physical ctivity was greater. Improvements in depression, coping and purical activity ware majeralood (9.5–14 months).		
Other interventions							Psychological interventions	11 studies	Wait-list/usual care/attention placebo/education	NR	Anxiety post-intervention	NR				ob ac ph	served. The effect on coping, self-efficacy and physical thickly was greater improvements in depression, coping and nysical activity were maintained (8.5–14 months). coled effect size: 0.17 (95%CI 0.02-0.32, p=0.03)		
Other interventions, Barsky, 2010 RCT	RA patients (168)	NR 13.4Y	Self-care (according to AIMS-2 (Arrhytes Impact Measurement Scale), score 1-5, highe score reflects higher disability): 0.59;	Anniety (according to Rand Mental Health inventory (MPI), some 0.20 mg/sper score reference higher selved of anniety): 6.1;	Mental Health Inventory (MHI),		Psychological interventions Cognitive -behaviour throupy: 12 season of 60-75min during 8.37w to help pattern develop effective coping strategies, exhance self effictors and personal control, and midly malakadjohr behaviors that maintain synominous and disability, followed by a monthly booster telephone call	11 studies	placebo/education	NR	Anxiety (according to Rand Mental Health Inventory (MHI), score 0-20, higher score reflects higher level of anxiety) Anxiety (according to Rand		6.1 (0.46) -0.26 (0.35)		Between	ob ac ph	tivity was greater. Improvements in depression, coping and nysical activity were maintained (8.5–14 months).	High	
	RA patients (168)	NR 13.4Y	Impact Measurement Scale), score 1-5, highe	 Health Inventory (MHI), score 0-20 higher score reflects higher level of 	Mental Health Inventory (MHI), score 0-20, higher score reflects		Cognitive-behaviour therapy: 12 session of 60-75min during 8-12W to help patients develop effective coping strategies, enhance self-efficacy and personal control, and midfy maladaptive behaviors that maintain symmoms and disability, followed by a	studies	placebo/education All 3 groups were compared with	NR	Anviety (according to Rand Mental Health Inventory (MHI), score 0-20, higher score reflects higher level of anxiety) Anxiety (according to Rand Mental Health Inventory (MHI), score 0-20, higher score reflects higher level of anxiety)	Chang e from			Between groups: p=0.93	ob ac ph	tivity was greater. Improvements in depression, coping and nysical activity were maintained (8.5–14 months).	High	

								Arthritis education: 8 sessions of 50min during 8 1200 including sales and printed material about 9A and foil treatment, followed by a monthly booster telephone call	r 56			Anotety (according to Rand Mental Health Inventory (MHI), score 0.70, higher score reflects higher level of anotety of Rand Mental Health Inventory (MHI). Score 0.20, higher score reflects higher level of anotety) Mental Health Inventory (MHI), score 0.20, higher score reflects higher level of anotety) score 0.20, higher score reflects higher level of anotety (MHI), score 0.20, higher score reflects higher level of anotety	BL until 12M 12M Chang e from	-0.05 (0.46) 5.7 (0.48) -0.13 (0.41)		Between groups: p=0.93				
Hewlett, 2005 RCT	RA patients (209)	NR	7.0-10.0Y, range of medians		es (Hospital Anxiety and Depression of Scale), score 0-21, higher score reflects higher level of anxiety): 7.0 median	Scale), score 0-21, higher score	helplessness index subscale, score 5-30, high scores reflect more	physiotherapist, occupational therapist) by patients with RA through a nurse-led telephone helpline	68	Usual care (review initiated by 52 rheumatologists)	52	Anxiety (according to HADS (Hospital Anxiety and Depression Scale), score 0-21, higher score reflects higher level of anxiety)	e from BL	0 (-2.0-3.0), median (IQR)	0 (-2.0-3.0), median (IQR)	p=0.95			High	
<u>Depression</u> Self-management progr	rams (combination of non	pharmacolog	ical intervention	<u>s)</u>																
Feldthusen, RCT 2016	RA patients with DAS28<3.8, VAS-fatigu >50 and disease durati >3Y (70)		12.9Y	Arthritis Self-efficacy Scale (ASES, score 0-101 higher scores reflect higher self-efficacy): 59.				Tallored health-enhancing physical activity and balancing life activities to guide participants in managing their fatigue: starting with individual person-centered meeting during which a self-care plan was developed, then follow-up meetings/johne contacts according to each participant's preferences with a physical therapist, who supported and coached each participant.		Ukualcare 34		Depression (post-intervention, HADS, score 0-21, higher score reflects higher depression) Depression (post-intervention, HADS, score 0-21, higher score reflects higher depression)	Chang	4.3 (2.8)	6.0 (3.5) -0.4 (2.0)	p=0.15	0.54		High	
Knittle, 2015 RCT	RA patients (78)	NR	NR	Self-efficacy physical activity (according to 18 item questionnaire from Bandura et al (2006) score 0-180, higher scores reflect higher self- efficacy): 81.2	L.	Depressive symptoms (according t BSI (Brief Symptom Inventory), score 0-4, higher scores reflect more depressive symptoms): 0.30	to three items from the Treatment Self-Regulation Questionnaire,	Education session plus a motivational interview from a physical therapist and two self-regulation coaching sessions from a rheumatology nurse	38	Group-based education session led 40 by a physical therapist		Depressive symptoms (according to BSI (Brief Symptom Inventory), score 0-4, higher scores reflect more depressive symptoms)	12W 8W	3.1 (1.7)	3.7 (1.9)		0.33	Effect size (Cohen's d): 0.08; p=0.266 (main effects of group × time interaction based on repeated measures mixed ANOVAs adjusted for age, gender, and baseline level of disease activity)	High	
Education Barlow, 1998 RCT	RA patients (108)	NR	15.85Y	Self-efficacy pain (ASE-pain, score 0-50, high scores reflect higher self-efficacy): 20.17; Sel efficacy other (ASE-other, score 0-60, higher scores reflect higher self-efficacy): 30.47; T	If- score reflects higher anxiety): 8.33;		Total knowledge score (self- developed, score -40 to +40, higher score reflects higher knowledge): 15.98	Provision of general information on RA in leaflet r format	53	No intervention 55		Depression (HADS, score 0-21, higher score reflects higher depression)	Chang e from BL until 3W	-0.33 (1.99)	0.50 (3.28)	p=0.059	0.31		High	
Niedermann, RCT 2011	RA patients with difficulties and/or pain hands that justified occupational therapy (in	3.71 9.25Y	Joint Protection Self-Efficacy (according to JP- SES, score 0-30, higher score reflects higher self-efficacy): 16.41; Arthritis self-efficacy (according to ASES-D, score 0-10, higher score reflects higher self-efficacy): 6.82	(Hospital Arxiety and Depressions Scale - Anxiety subscale), score 0-	Scale - Depression subscale), score		Joint protection education according to Pictorial Representation of Iliness and Self Measure (PRISM): a brief literactive hands- on tool, requiring simple instructions and little time; five 45min sessions, four over a 3W period and one booster session 2M later	26	Conventional joint protection 2:		Depression post-intervention (according to HADS-D (Hospital Aroiety and Depressions Scale - Depression subscale), score 0- 21, higher score reflects higher level of depression)	3M	4.81 (3.27)	4.24 (3.38)	p=0.53	0.17		High	
Niedermann, RCT 2012 (Long- term follow- up)	RA patients with difficulties and/or pain hands that justified occupational therapy ()	in	3.71 9.25Y	Joint Protection Self-Efficacy (according to IP- SES, score 0-30, higher score reflects higher self-efficacy): 16.41; Arthritis self-efficacy (according to ASES-D, score 0-10, higher score reflects higher self-efficacy): 6.82	(Hospital Anxiety and Depressions Scale - Anxiety subscale), score 0-	Scale - Depression subscale), score		Joint protection education according to Pictorial Representation of Iliness and Self Measure (PRISM): a brief interactive hands- on tool, requiring simple instructions and little time; five 45min sessions, four over a 3W period and one booster session 2M later	26	Conventional joint protection 2:		Depression at follow-up (according to HADS-D (Hospital Arwiety and Depressions Scale - Depression subscale), score 0- 21, higher score reflects higher level of depression)	e from BL until	0.5 (3.0)	-0.8 (2.2)	p=0.07	0.49		High	
Riemsma, RCT 1997	RA patients (216)	NR	13.35Y	Self-efficacy - pain (according to ASES (Arthritis Self-efficacy Scale), score 10-100, higher score reflects higher self-efficacy): 3.12; Self-efficacy - function (according to ASES (Arthritis Self-efficacy Scale), score 10- 100, higher score reflects higher self-efficacy)	Dutch Arthritis Impact Measurement Scales (AIMS)): 3.65	Depression (according to subscale of Dutch Arthritis Impact 3 Measurement Scales (AIMS)): 2.9 (2.99 vs 2.45 vs 3.54, p<0.05)	questionnaire, score 0-10, higher 9 score reflects higher knowledge):	Individual program for education under guidance of their regular providers of health care whose activities were coordinated through arthritis passports		Usual care 7.	72	Depression (according to subscale of Dutch Arthritis Impact Measurement Scales (AIMS))	7M	2.92	2.93	ns			High	
				3.32; Self-efficacy - other symptoms (according to ASSS (Arthritis Self-efficacy Scale), score 10-100, higher score reflects higher self-efficacy): 3.63 (3.54 vs 3.88 vs 3.45, pc0.05)				Educational information without further guidance	75	Usual care 7.	-	Depression (according to subscale of Dutch Arthritis Impact Measurement Scales (AIMS))	7M	2.58	2.93	ns				
Psychological interventi DiRenzo, 2018 SLR: 5 RCTs		NR	NR	NR				Mindfulness/vitality training program	(#2)	Wait-list/cognitive behavioural N therapy/education		Depressive symptoms at 6M- 36W (according to SCL-90-						Significant treatment effect favouring mindfulness	Low	Moderate- High
Hewlett, 2011 RCT	RA patients scoring 26 fatigue during the past week (Visual Analogue Scale , 0-10, higher sco reflects higher level of fatigue) (127)	t e ore	14.0Y	Self-efficacy (according to RASE (Rheumatoid Arthritis Self-Efficacy scale), score 28:140, higher scores reflect more self-efficacy): 104.	and Depression Scale), score 0-21,				65	Fatigue information: 1h didactic 62 group session	52	R/Beck depression inventory)	18W	4.88 (3.66)	7.55 (4.51)	p=0.002	0.65	Adjusted difference: -1.98 (95)KCI -3.20 - 0.75), adjusted for baseline score	High	

Profilers, SUR 9 RA patients (10782) NR NR NR 2018 SUR	SLRs, 44 studie	Walk list/usual care/attention NR plantolo (reducation	Depression Depression post-intervention Depression after follow-up	NR NR		Active et al. (2000) and facilities et al. (2000) found thistopic-disagoil attemperation consisted at main it disaction in the production of the production of the production of the production of the dispersion consistent errors of a set of all colleges during letter at follow operations of a set of the production of the arthroso of colleges and reduction indepression which were not maintained before a following-life dismost exist (2003) and the arthroso of the foundation of the production indepression which were not maintained behavior change reterventions unabservent in Section 1997, and the colleges of the colleg	n d
Bareky, 2000 RCT RA patients (168) NR 13.4° Sef-care (scooding to AMS 2 Crithmins A mainty (scooding to brand Memorial Depression (scooding to Brand Memorial Depression) (scooding to Brand Memorial Depressi	Cognitive behaviour through; 21 section of 60 75min 68 down g 8.31 We had parted selver opticing through each ground grou	All groups were compared with eachother	Depression (according to Rand Mental Health Incentory (MHL), score 0.20, higher score effects, pilepter level of depression) Depression (according to Rand Mental Health Inventory (MHL)) score 0.20, higher score effects higher level of depression) Depression (according to Rand Mental Health Inventory (MHL)) score 0.20, higher acore effects higher level of depression) Depression (according to Rand Mental Health Inventory (MHL)) Depression (according to Rand Mental Health Inventory (MHL))	Chang -0.29 (0.36) e from 8. csl 123M -0.29 (0.47) e from 9. c from 9. c from 123M -0.48 (0.47) e from 123M -0.35 (0.47) c from 9. c fro	Between group: p-0.95 Between group: p-0.95 Between group: p-0.95		High
Hewlett, 2005 RCT RA patients (2009) NR 7.0.10.07V, Self-efficary pain (according to AASS (particles). Anxiety (according to HAZIS (physical anxiety and proprison medians med		Usual care (review initiated by 52 neumatologists)	higher level of depression) Depression (according to HADS	until 12M Chang 0 (-1.0-3.0), e from median (IQR) BL	р-0.39 ((1.0-2.75), р-10.80 (педан (104)		High
Self-management array rams (combination of non-pharmacological interventions) Belf, 1998 INT Patients with active RA NR 7.5V Self-efficacy (sozie) (SS), sozie 0.100, higher self-efficacy (SS) (SS) (SS), sozie 0.100, higher sozie reflects higher self-efficacy), 49.2	Education and exercise program consisting of 34 visits. 76 of 3 hours of physical therapy.	Wast list 74	completers, according to Rheumatoid Arthritis Knowledge Questionnaire (KQ), score 0-31,		16.7(5.0) 0.34 1.1(1.5) p=0.011 0.47		High
Libeker, RCT Patients with active RA NR 7.5V Self efficacy (according to Stanford Archinis RA Linovindege (according to	Education and exercise program consisting of 3a value 76 of 3 hours of physical distupy Educational programs (pinning at increasing #11 increasing early increasing programs (pinning at increasing and psychological programs (pinning stating stating with the programs of personal (pinning stating stating personal programs (pinning stating stating personal persona		RA knowledge (according to Rheumatoid Arthritis Knowledge (Questionnaire (KQ), score 0-31, higher score reflects higher knowledge) Knowledge	S2W NR	NR p-0,021 (61A02VA) (61A02VA) (61A02VA) (61A02VA) (61A02VA) and 52)	Improvement in all 11 studes, Conclusion: A large number of studes still axes the pastive effects of the superact patient of such that patient patient of such such as discours and patient pa	

Barlow, 1998 RCT	RA patients (108)	NR	15.85Y	Self-efficacy pain (ASE-pain, score 0-50, higher scores reflect higher self-efficacy): 20.17; Self- efficacy other (ASE-other, score) -60, higher scores reflect higher self-efficacy): 30.47; T	Anxiety (HADS, score 0-21, higher score reflects higher arxiety): 8.33;	Depression (HADS, score 0-21, higher score reflects higher depression): 6.63;	Total knowledge score (self- developed, score -40 to +40, higher score reflects higher knowledge): 15.98	Provision of general information on RA in leaflet format	53	No intervention	55		Chang e from BL until	5.86 (8.65)	0.00 (4.69)	p=0.0001 0.8		High		
Riemsma, RCT 1997	RA patients (216)	NR	13.35Y	Self-efficacy - pain (according to ASES (Arthritis Self-efficacy Scale), score 10-100, higher score reflects higher self-efficacy): 3.12; Self-efficacy - function (according to	Dutch Arthritis Impact	Depression (according to subscale of Dutch Arthritis Impact Measurement Scales (AIMS)): 2.99 (2.99 vs 2.45 vs 3.54, p<0.05)	questionnaire, score 0-10, higher 9 score reflects higher knowledge):				72	RA Knowledge (self-developed questionnaire, score 0-10, higher score reflects higher knowledge)		5.82	5.21	ns		High		
				ASES (Arthritis Self-efficacy Scale), score 10- 100, higher score reflects higher self-efficacy): 3.32; Self-efficacy - other symptoms (according to ASES (Arthritis Self-efficacy Scale), score 10-100, higher score reflects higher self-efficacy): 3.62 (3.6.4 m. 3.90 m.				Educational information without further guidance	75	Usual care	72	RA Knowledge (self-developed questionnaire, score 0-10, higher score reflects higher knowledge)	7М	6.20	5.21	ns				
Other interventions Srikesavan, SLR: 6 2019 RCTs	RA patients (567)	NR	NR	NR				Web-based rehabilitation	#1	No access to website	NR	RA knowledge	2M				A significant effect was noted in patient RA knowledge in most of these companions favouring the intervention groups at both time points. Concludion: The effects of web based rehabilistic interventions on past, function, quality of fits, self-efficacy, success the function of the very low-quality of ordisore mostly from small single trails. Advance effects were not reported, Large, web-disequed trails are needed to evaluate the clinical and costs effectiveness of web-based rehabilisation intervention.	n	Hig	gh
Other outcomes Barsky, 2010 RCT	RA patients (168)	NR	13.4Y	Self-care (according to AIMS-2 (Arthritis Impact Measurement Scale), score 1-5, higher	Anxiety (according to Rand Mental Health Inventory (MHI) score 0-20			Cognitive-behaviour therapy: 12 session of 60-75min during 8-12W to help patients develop effective	68	All 3 groups were compared with eachother		Self-care (according to AIMS-2 (Arthritis Impact Measurement	12M	0.51 (0.21)				High		
				score reflects higher disability): 0.59;	higher score reflects higher level of arxiety): 6.1;	score 0-20, higher score reflects higher level of depression): 4.9		coping strategies, enhance self-efficacy and personal control, and midfy maladaptive behaviors that maintain sypmtoms and disability, followed by a monthly booster telephone call				Scale), score 1-5, higher score reflects higher disability)								
								monany occident exprione can				Self-care (according to AIMS-2 (Arthritis Impact Measurement Scale), score 1-5, higher score	e from	+0.04 (0.17)		Between groups: p=0.16				
												reflects higher disability)	until 12M			p=0.10				
								Relaxation response training: 8 sessions of 50-60min during 8-12W, including psycho-physiological and cognitive aspects, dispinagmatic breathing, progressive muscle relaxation, generalisation of relaxation response skills to symptoms management,	44			Self-care (according to AIMS-2 (Arthritis Impact Measurement Scale), score 1-5, higher score reflects higher disability)	12M	0.21 (0.09)						
								followed by a monthly booster telephone call				Self-care (according to AIMS-2 (Arthritis Impact Measurement	e from	-0.51 (0.22)		Between groups:				
													BL until 12M			p=0.16				
								Arthritis education: 8 sessions of 50min during 8-12W including talks and printed material about RA and its treatment, followed by a monthly booster telephone call	56			Self-care (according to AIMS-2 (Arthritis Impact Measurement Scale), score 1-5, higher score reflects higher disability)	12M	0.46 (0.14)						
												reflects higher disability)		-0.20 (0.20)		Between groups: p=0.16				
Breedland, RCT 2011	RA patients (34)	DAS28 3.0	8.0Y	Self-efficacy pain+other symptoms (according to ASES (Arthritis Self-Efficacy Scale), score 1- 5, higher score reflects higher): 3.22; Self- efficacy function (according to ASES (Arthritis Self-Efficacy Scale), score 1-5, higher score reflects higher): 4.11			Self-reported health status psychological state (according to Arthritis Impact Measurement Scales-2 (AIMS2), score 0-10, higher score reflects lower health state): 2.35: Self-reported health	Group therapy: physical exercise designed to increase aerobic capacity and muscle strength together with an education programe to improve health status and self efficacy	n	Wating list	15	Self-reported health status psychological state (according to Arthritis Impact Measurement Scales-2 (AIMS2), score 0-10, higher score reflects lower health state)	9W	2.12 (1.58)	2.29 (1.31)	0.1		High		
							status social interaction (according to Arthritis Impact Measurement Scales-2 (AIMS2), score 0-10, higher score reflects lower social interaction): 3.59					Self-reported health status psychological state (according to Arthritis Impact Measurement Scales-2 (AIMS2), score 0-10,	e from BL	-0.34 (1.11)	0.08 (1.37)	p=0.4 0.3				
												Self-reported health status social interaction (according to Arthritis Impact Measurement Scales-2 (AIMS2), score 0-10, higher score reflects lower social interaction)	9W	3.26 (1.37)	2.52 (1.24)	0.5				
												Self-reported health status social interaction (according to Arthritis Impact Measurement Scales-2 (AIMS2), score 0-10, higher	e from	-0.48 (1.90)	-0.88 (2.03)	p=0.6 0.2				
el Miedany, RCT 2012	RA patients (147)	NR	11.3Y				Self-helplessness (according to the modified rheumatology attitudes index, range of score NR, higher score reflects higher helplessness): 9.2	decisions to cope with their disease; b) educate the	74	Usual care	73	Self-helplessness (according to the modified rheumatology attitudes index, range of score NR, higher score reflects higher helplessness)		4.7 (0.4)	6.2 (0.2)	4.3		High		
								patients about how to assess the main arthritis outcome measures regularly for their arthritis; c) help the patients to identify and manage the impact of arthritis on their personal file; d) show patients how to keep their muscles and joints fit; for health care professionals aliming to a) review the effects of				Self-helplessness (according to the modified rheumatology attitudes index, range of score NR, higher score reflects higher helplessness)	e from BL	-4.7 (0.4)	-3.1 (0.5)	p<0.001 3.5				

Hammond, RCT 2004	RA patients (328)	NR	9.5M	Sefetimes yourset (sourches to Animals (ale Stiffuns Seal (ASS)), amon 10th hyphr scores reflect higher self-efficacy); 61.23		Impact Measurement Scale version	individual treatments and one 2h group arthritis education program, with additional sessions if needed	2 Usalcare	164	Scale version 2, score 0-10, higher scores reflect better function) Helplessness (according to	e from 0. BL until 66M Chang 1-1 6M Chang 1-		0.36-0.11) 0.97 (95%G - 1.71-0.24) 1.05 (95%G - 1.83-0.27)	p=0.36 p=0.51 p=0.96 p=0.70		High
Hewlett, 2005 RCT	RA patients (209)	NR		Sel-efficacy pain (according to ASSS) perhitis. Anxiety (according to MADS self-efficacy scale), score 10.100 higher scores. (Respital Anxiety, and Repression reflect more self-efficacy): 50.0-50, oranged. Scale), score 0.21 higher scores medicum, Self-efficacy, Self-orange of ASSS (artistness self-efficacy): 50.0-50, oranged. Self-efficacy scale), score 10.00 higher scores metion used efficacy; 62.2-67.3, range of medium. Self-efficacy; 62.2-67.3, range of self-efficacy; 62.2-67.3, range of self-efficacy; 62.2-67.3, range of self-efficacy; 62.2-67.3, combined to 10.00 higher scores medium. Self-efficacy; 62.2-67.3, combined to 10.00 higher scores medium.	(Hospital Anxiety and Depression Scale), score 0-21, higher score reflects higher level of depression):	helplessness index subscale, score 5-30, high scores reflect more	Direct access to hospital review (fineumatologist, 68 physiotherspott, cocquational therapical) by patients with the through a nurse led telephone helpfine	Usual care (review initiate rheumatologists)	d by 52	Helplessness (according to arthritis helplessness indexcubeacle, score 5-30, high scores reflect more helplessness)	e from m BL		1.0 (-1.75- 4.0), median (IQR)	p=0.20		High
Hewlett, 2011 RCT	RA patients scoring ≥6 for fatigue during the past week (Visual Analogue Scale, 0-10, higher score reflects higher level of fatigue) (127)	NR NR	14.0Y	nade sterreinLasy; 7.00, intends of Seff-filiary (according to MSE (fibreumatoid Arthritis Self-Efficary scale), score 28-140, higher scores reflect more self-efficary): 104.8 higher score reflects higher anothery; 8.7 (4.7)	and Depression Scale), score 0-21,	Helplessness (according to AHI (Arthritis helplessness Index), score 5-30), higher scores reflects higher helplessness): 17-9 (4-8)	management: 6 weekly sessions of 2h, 1	Fatigue information: 1h d group session	dactic 62	Helplessness (according to AHI (Arthritis helplessness Index), score 5-30), higher scores reflects higher helplessness)	18W 15	3.78 (4.23)	18.27 (4.99)	p<0.001	0.97 Adjusted difference: -3.13 (95%CI -4.731.53), adjusted for baseline score	High
Knittle, 2015 RCT	RA patients (78)	NR	NR	Self-efficacy physical activity (according to 18- item questionnaire from Bandura et al (2006), score 0-130, higher scores reflect higher self- efficacy): 81.2	BSI (Brief Symptom Inventory),	to three items from the Treatment Self-Regulation Questionnaire,	Education session plus a motivational interview from a physical therapist and two self-regulation coaching sessions from a rheumatology nurse	Group-based education so by a physical therapist	ssion led 40	Autonomous motivation (according to three items from the Treatment Self-Regulation Questionnaire, score 0-7, higher scores reflect more autonomous motivation)	8W 6.	0 (0.8)	5.2 (1.4)		0.70 Effect size (Cohen's d): 0.26; p=0.001 (main effects of group × time interaction based on repeated measures mixed ANDVAs adjusted for age, gender, and baseline level of disease activity)	
Lau, 2019 RCT	RA patients (21)	NR	NR			of Rheumatoid Arthritis Impact of	Neural mobilisation exercises (targeting the median, 11 musculocutaneous, femoral and saphenous nerve, as well as entire nervous system), twice daily	Gentle joint mobilisation o targeting the same joints	xercises 10	Coping (according to one question of Rheumatoid Arthritis Impact of Disease (RAID) questionnaire, score 0-10, higher scores reflect worse coping)	4-8W 1.	64 (2.01)	2.50 (2.07)	ns	0.42	High
Siu, 2004 nRCT	RA patients (45)	NR	85.73M	Self-management behavior - Exercise (subscale of self-management behavior questionnaire, range 0-MR, higher score reflects Mill; 3-35, Self-management behavior - Cognitive symptom management (subscale of self-management behavior our scittomaire.			Community rehabiliation service: 1) orientiation phase 25 (2-4W, orientation program and hospital visits/home visits to provide information about disease, a leviate helpiesness; re-establish and fa cilitate social contact and promote readness for change); 2) intervention phase (2-3M stress management group, self-help	Usual care (patients who not to join the intervention	lecided 16 i group)	Self-management behavior - Exercise (follow-up, subscale of self-management behavior questionnaire, range 0-NR, higher score reflects NR)	9M 8.	34 (3.48)	., .,	p=0.000, adjusted by baseline value	1.14	High
				range 0.5, judges core reflects NBI 5.13, Self- management babarie. Mental stress management (abudarie of self-management behavior questionnism, mag 2-1, higher score reflects NBI 5.42, Self-management behavior- the of community services (subcoir de off-management behaviors (subcoir de off-management behaviors (subcoir de off-management behaviors) (but 1.44, Self-management behaviors) (but 1.44, Self-management behaviors) (but 1.44, Self-management behaviors) (but 1.44, Self-management behaviors)			cours and water exercise class to acquire cell- management strategies, enhance self-efficacy and strengthen and expand social inetwork); 3) consolidation plass (off, e-union meetings and valunteer training program to residence and monitor and efficacy, self-managent stranges, or vival social self-efficacy, self-managent stranges, or vival social acceptance and self-worthiness) and facilities self- acceptance and self-worthiness)			Self-management behavior - Cognitive symptom management follow-up, subscale of self-management behavior questionnaive, range O- S, higher score reflects NR) Self-management behavior - Mentals stress management (follow-up, subcale of self- management behavior questionnaive, range 1-3, higher		50 (0.67) 69 (0.47)	1.56 (0.51)	p=0.000, adjusted by baseline value p=0.372, adjusted by baseline value		
				questionnaise, ange Q-1, higher score reflects. NPL: 182; Self-management behavior 1 bits of exhibits the self-collection of the past of exhibits of the self-collection of the past of the self-collection of the past of the self-collection of the self-						score reflects NR)		,,	2.00 (2.22) 1.94 (0.25)	p=0.019, adjusted by baseline value	0.56	
				range 0.5, hyber score reflects NBI; 5.15, self- efficacy - Perform self-management behaviors (subscale of self-efficacy - geometria mature, angle 2-10, high score performants, may get 2-10, high score disase in general judicials of self-efficacy questionnaire, angle 1-10, high score reflects NBI; 5.02; self-efficacy - Ashree habital nuturens (subscale of self-efficacy questionnaire, angle 1-10, higher score reflects NBI; 5.36						behavior questionnaire, range 0- 1, higher score reflects NR)		,	1.13 (0.34) 1.19 (0.75)	p=0.000, adjusted by baseline value p=0.000, adjusted by baseline value		

			Self-management behavior Communication with physic (follow-up, subscale of self- management behavior questionnalire, range 0-5, hig score reflects NR)	n	2.04 (1.05)	p=0.000, 0.69 adjusted by baseline value			
Do Thursh SLR 7 RA patients (S46 (Ks, cm) NR NR NR 2017 RCTs RA patients(s) RF RA patients(s) RF RA patients(s) RA pati	Nune-led follow-up in managing disease control	266 Physician-led follow-up 2	71 Patient satisfaction, accordi Leeds Satisfaction Scale or \ conflidence and satisfaction	AS		-0.27 (-1.38 - 0.83)	-0 favours murse led follow-up; Condusion: After Eyear no difference in dasea activity, Indicate by DAS-28, were found between embedded nurse led follow-up compared with conventional physican-led follow-up; jn RA patients with low disease activity or remission. No difference was found in patient satisfaction after Eyear (standard mean difference (SM) (SM) (1935	7	Moderate
	Nurse-led follow-up in managing disease control	123 Physician-led follow-up 1	20 Patient satisfaction, according Leeds Satisfaction Scale or Vacconfidence and satisfaction	AS		0.33 (0.03- 0.62)	>0 favours nurse led follow-up		
DiRenzo, 2018 SLR: S RA patients (399) NR NR NR NR RCTs	Mindfulness/vitality training program	(#2) Wait-list/cognitive behavioural therapy/education	IR Psychological distress at 6-1 according to General Health Questionnaire-20	M, 6-12M			Significant treatment effect favouring vitality training program	Low	Moderate- High
	Mindfulness/vitality training program	(#1) Wait-list/cognitive behavioural Materiapy/education					Significant treatment effect favouring vitality training program		
	Mindfulness/vitality training program	(#2) Wait-list/cognitive behavioural P therapy/education	IR Self-care ability at 12M (questionnaire/test not described)	12M			Significant treatment effect favouring vitality training program		
	Mindfulness/vitality training program	(#1) Wait-list/cognitive behavioural P therapy/education	R Psychological well-being at (according to psychological being scale)				Significant treatment effect favouring mindfulness		
Prombures, SUR-9 Rapastents (1077E2) NR NR NR NR SUR SUR SUR SUR SUR SUR SUR SUR SUR SU	Paychological interventions	#2 Wait-Educated any/attention 8 SUR, placebo/education 12 studies	IR Coping	NR			Asin et al. (2002) reposted that psychological Intervention May a moderate effect on improvements in copy and testeverstonic de a 0.46; 590 C. C. 10.07, -0.83; P. et 0.007). At 100 close yell presengation of commission of the order terminated significant and hald increased highly (ii) of 0.32; 595 C0.007; -1.11; -10.05; Storage evolution of the order order of the order	i.	Low- moderate
	Psychological interventions	#1 Wait-list/usual care/attention N SLR, 4 placebo/education studies	IR Coping post-intervention	NR			coping behaviour(averaged 10 months) because of inconsistent Pooled effect size: 0.46 (95%CI 0.09-0.83, p=0.007)	•	
	Psychological interventions	studies #1 Wait-list/usual care/attention SLR, 3 placebo/education studies	IR Coping after follow-up	NR			Pooled effect size: 0.52 (95%CI -0.071.11, p=0.04)		

C. conferent interval. DAST28: disease actually scarce assistant 32 points; Mr. months; n. mumber of patients; Mr. not applicable; Mrs. and points; Mr. months; n. mumber of patients; Mr. not applicable; Mrs. and produced interval in the conference interval. DAST28: disease actually scarce assistant 32 points; Mr. months; n. mumber of patients; Mrs. not applicable; Mrs. and produced interval inter